

# The Miga Data Viewer

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# The Miga Data Viewer (Miga DV)

An open-source, PHP- and Javascript-based generic viewer for structured data.

Written by me in 2013.

<http://migadv.com>

# Miga is not SMW

Miga is not related to MediaWiki, wikis or the Semantic Web.

So why am I talking about it at SMWCon?

# Miga's connections to SMW

- Directly inspired by SMW
- Shares a very similar approach to data storage and data structure definition
- Can be used as a mobile, offline interface for viewing SMW data

# Miga: Features

- Gets data from CSV file(s) and a .ini file that defines the data schema
- Helper scripts to create CSV files from **SMW**, plain MediaWiki **infobox data**, or **Wikidata**
- "Smart" approach to filtering and display - sets display based just on data and data schema
- App-like interface, including maps and calendars

# Offline/mobile features

- Stores all its data on the browser, using Web SQL (i.e., SQLite on the browser)
- Also stores its *code* on the browser, so it can work offline
- Works on all major browsers, laptop and mobile, except IE and Firefox

Demos!

# Sample Miga schema file

[Jazz musicians]

Name = **Name**

Birth date = **Date**

Instrument = **List (,) of Text**

Associated acts = **List (,) of Entity  
(Jazz musicians/Name)**

Image = **Image URL**

URL = **URL**



# How can Miga help SMW users?

- A small subset of SMW wikis use SMW only for its convenient querying/display abilities (tables, maps, calendars etc.), *not to edit the data*. (Data is imported via External Data, Data Transfer, etc.)
  - For these wikis, Miga may be an easier/less hacky substitute for SMW.
- A mobile- and offline-friendly interface for any SMW data.

# Could Miga's "smart" approach inspire changes in SMW and related extensions?

- It already has: Semantic Drilldown is now "smarter" as well - it now sets filter values itself
  - "Has value", "Has input type" and "Has date range" special properties were eliminated in SD 1.3

# What other changes might make sense?

- If the pages in a category all contain a Geo. Coordinates property, should there be a map automatically displayed somewhere?
- Same with Date properties and calendars/timelines?
- Should all categories have an automatic table, showing the whole data?
- Should each property automatically display a distribution graph of its values?



# Credits

- Miga was partly funded by the Wikimedia Foundation, through an "Individual Engagement Grant".
- Makes use of jQuery, Google Maps and Open Layers.

Questions/Comments/Complaints